

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1050574

Luminaire Tested: 24PTR-90-PB1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-90-PB1-L840-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

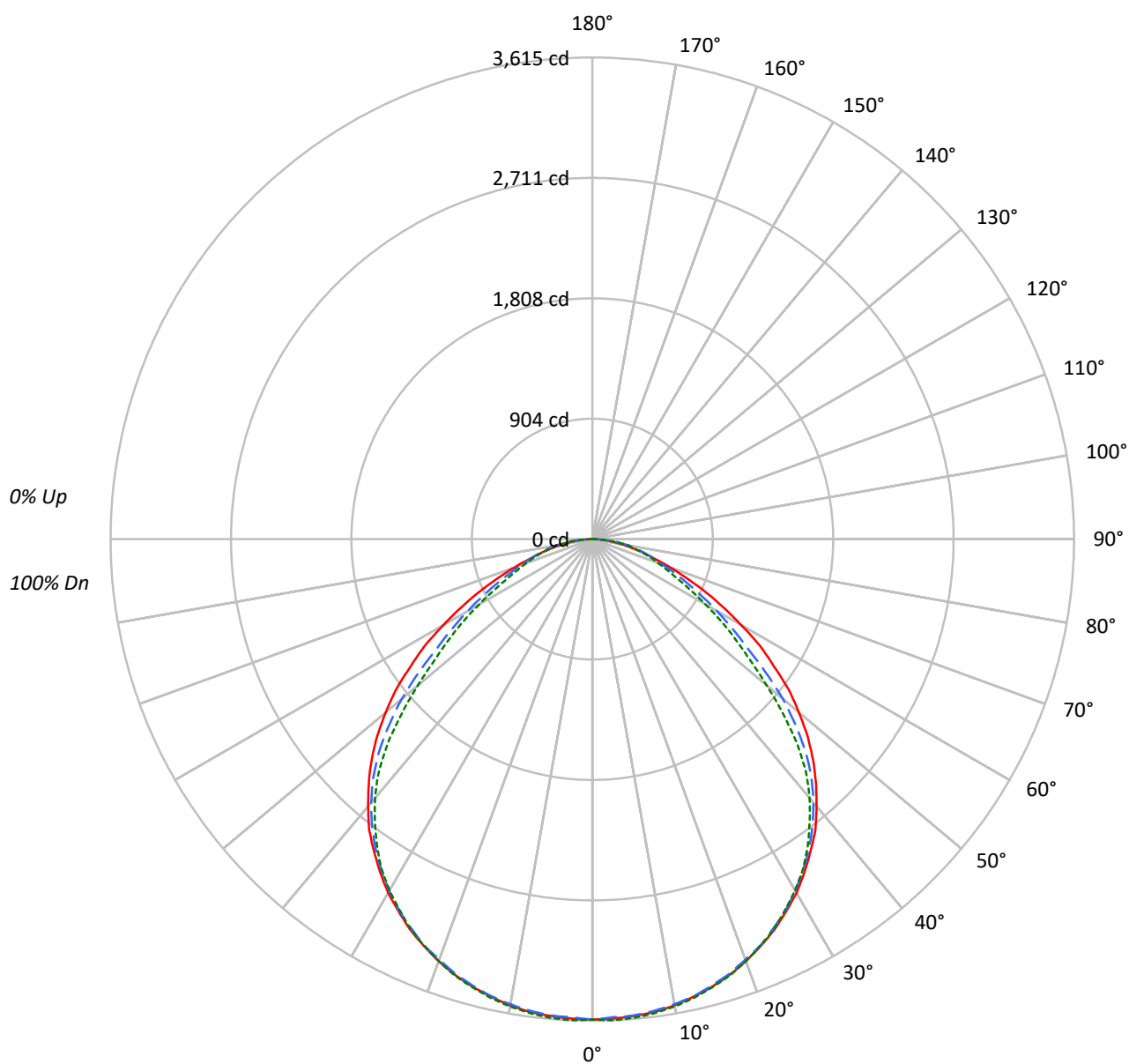
Lumens per Lamp: N/A
Luminaire Lumens: 8991.9 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62		
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54		
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47		
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42		
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37		
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33		
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30		
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4852	4852	4852
5°	4852	4847	4871
10°	4854	4842	4866
15°	4844	4832	4850
20°	4827	4808	4827
25°	4800	4780	4794
30°	4762	4734	4727
35°	4692	4656	4627
40°	4597	4534	4456
45°	4456	4313	4135
50°	4234	3909	3574
55°	3902	3320	3079
60°	3474	2901	2638
65°	2980	2514	2246
70°	2460	2216	2059
75°	2075	2120	2007
80°	1753	2165	2064
85°	1372	2192	1919

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4456 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.9	3.8
10°-20°	981.1	10.9
20°-30°	1486.2	16.5
30°-40°	1770.9	19.7
40°-50°	1731.7	19.3
50°-60°	1309.9	14.6
60°-70°	804.7	8.9
70°-80°	428.7	4.8
80°-90°	136.8	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2809.2	31.2
0°-40°	4580.1	50.9
0°-60°	7621.6	84.8
0°-90°	8991.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8991.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3606	3606	3606	3606	3606	
5°	3593	3597	3588	3602	3606	342
15°	3478	3482	3469	3482	3482	981
25°	3234	3229	3220	3225	3229	1489
35°	2856	2852	2834	2821	2817	1787
45°	2342	2329	2266	2191	2173	1801
55°	1663	1579	1415	1335	1313	1490
65°	936	860	790	727	706	931
75°	399	404	408	395	386	428
85°	89	116	142	133	124	107
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3606.1	3606.1	3606.1	3606.1	3606.1
2.5°	3601.9	3606.1	3592.6	3610.7	3614.9
5°	3592.6	3597.2	3588.4	3601.9	3606.1
7.5°	3579.5	3579.5	3570.7	3583.7	3588.4
10°	3553.0	3553.0	3544.1	3557.2	3561.8
12.5°	3517.6	3517.6	3512.9	3521.8	3526.4
15°	3477.5	3481.7	3468.7	3481.7	3481.7
17.5°	3428.6	3424.5	3419.8	3428.6	3433.3
20°	3370.9	3370.9	3357.9	3366.7	3370.9
22.5°	3304.3	3304.3	3300.1	3304.3	3300.1
25°	3233.5	3228.9	3220.0	3224.7	3228.9
27.5°	3149.3	3149.3	3140.4	3140.4	3135.7
30°	3065.0	3060.3	3047.3	3038.4	3042.6
32.5°	2963.0	2958.3	2945.3	2936.4	2940.6
35°	2856.4	2852.2	2834.5	2821.0	2816.8
37.5°	2750.2	2736.7	2714.3	2696.6	2678.9
40°	2617.0	2603.5	2581.6	2541.6	2536.9
42.5°	2483.8	2470.8	2434.9	2386.5	2373.0
45°	2341.8	2328.8	2266.4	2190.9	2173.2
47.5°	2190.9	2169.0	2071.3	1978.1	1942.7
50°	2022.8	1982.8	1867.3	1747.6	1707.6
52.5°	1858.4	1787.7	1636.8	1530.2	1490.6
55°	1663.3	1579.1	1415.1	1335.0	1312.7
57.5°	1490.6	1375.1	1241.9	1162.3	1144.6
60°	1290.8	1184.2	1078.0	1006.8	980.2
62.5°	1108.7	1015.6	927.1	864.7	834.0
65°	936.0	860.5	789.8	727.4	705.5
67.5°	767.4	727.4	669.6	621.2	607.7
70°	625.4	603.0	563.4	541.1	523.4
72.5°	496.9	505.7	479.2	470.3	456.8
75°	399.1	403.7	407.9	394.9	386.0
77.5°	301.7	323.6	341.3	332.5	323.6
80°	226.3	248.2	279.4	266.4	266.4
82.5°	155.1	182.1	208.6	199.8	195.1
85°	88.9	115.5	142.0	133.2	124.3
87.5°	35.4	57.7	61.9	61.9	57.7
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)